

to 0.4 μm , and the additive concentration of the surface of said barrel section is 1/2 or less of that in the vicinity of the center of the thickness.

9. (New) A ceramic envelope for high intensity discharge lamp as claimed in claim 5, wherein an additive consists of at least one or more kinds of Sc_2O_3 , MgO , ZrO_2 , Y_2O_3 and lanthanoid based rare earth oxide.

10. (New) A ceramic envelope for high intensity discharge lamp as claimed in claim 7, wherein an additive consists of at least one or more kinds of Sc_2O_3 , MgO , ZrO_2 , Y_2O_3 and lanthanoid based rare earth oxide.

11. (New) A ceramic envelope for high intensity discharge lamp as claimed in claim 8, wherein an additive consists of at least one or more kinds of Sc_2O_3 , MgO , ZrO_2 , Y_2O_3 and lanthanoid based rare earth oxide.
